

RICK D. NYDEGGER
BRENT P. LORIMER
THOMAS R. VUKSINICK
LARRY R. LAYCOCK
JONATHAN W. RICHARDS
DAVID R. WRIGHT
JOHN C. STRINGHAM
JOHN M. GUYNN
CHARLES L. ROBERTS
DANA L. TANGREN
ERIC L. MASCHOFF
CHARLES J. VEVERKA
ROBYN L. PHILLIPS
RICHARD C. GILMORE *
STERLING A. BRENNAN
R. BURNS ISRAELSEN
DAVID R. TODD
DAVID B. DELLENBACH
L. DAVID GRIFFIN
ADRIAN J. LEE
FRASER D. ROY
CARL T. REED
R. PARRISH FREEMAN, JR.
PETER F. MALEN, JR.
L. REX SEARS, PH.D.

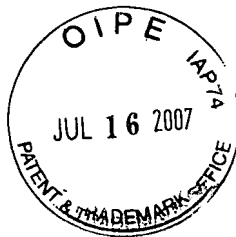


ROBERT E. AYCOCK
JENS C. JENKINS
MICHAEL B. DODD
BRETT I. JOHNSON
SARA D. JONES
TIGE KELLER
JANNA J. LEWIS
J. LAVAR OLDHAM
MICHAEL J. FRODSHAM
WESLEY C. ROSANDER
RYAN N. FARR
WILLIAM R. RICHTER
KEVIN W. STINGER
MATTHEW D. TODD
MATTHEW A. BARLOW
ANDREW S. HANSEN
CHAD E. NYDEGGER
JOSEPH G. PIA
CLINTON E. DUKE
JAMES B. BELSHE
KIRK R. HARRIS
MICHAEL M. BALLARD
DAVID A. JONES
SHANE K. JENSEN
JONATHAN M. BENNS, PH.D.
SCOTT A. WOODBURY
JOHN T. GADD
MARK W. FORD
COLBY C. NUTTALL
AARON M. SMITH
KULANIAKEA FISHER
THOMAS M. BONACCI
PAUL G. JOHNSON
AMBER B. LEAVITT
JEFFERY M. LILLYWHITE
HEATHER MANWARING
JOHN C. BACOC

VERNON R. RICE §
OF COUNSEL

WORKMAN | NYDEGGER

INTELLECTUAL PROPERTY ATTORNEYS



1000 EAGLE GATE TOWER
60 EAST SOUTH TEMPLE
SALT LAKE CITY, UTAH 84111
TELEPHONE: (801) 533-9800
FAX: (801) 328-1707
WEBSITE: HTTP://WWW.WNLAW.COM

PATENT
Docket No. 15436.438.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hoki Kwon

Serial No.: 10/078,474

Filed: Feb. 21, 2002

For: GAAS/AL(GA)AS DISTRIBUTED BRAGG
REFLECTOR ON INP

Examiner: Dung T. Nguyen

Patent No.: 6,822,995 B2

Issue Date: Nov. 23, 2004

Art Unit
2828

REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. § 1.323 which implement 35 U.S.C. § 255, the Commissioner is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form 1050 reflects the desired corrections. Also enclosed please find a check in the amount of \$100.00 to cover the costs for issuance of this certificate.

Certificate
JUL 18 2007
of Correction

07/17/2007 MGBREM1 00000004 6822955
01 FC:1811

100.00 OP

JUL 18 2007

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178. Duplicate copies of this letter are enclosed.

Dated this 10 day of July, 2007.

Respectfully submitted,

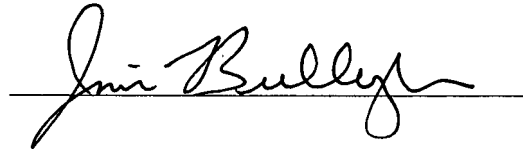


R. Burns Israelsen
Attorney for Patentee
Registration No. 42,685
Customer No. 022913

RBI:jsb
Docket No. 15436.438.2
PR0000002354V001

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 13 day of July, 2007.



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323,
PTO Form 1050 and Check No. 153256 for \$100.00

JUL 18 2007

RICK D. NYDEGGER
BRENT P. LORIMER
THOMAS R. VUKSINICK
LARRY R. LAYCOCK
JONATHAN W. RICHARDS
DAVID R. WRIGHT
JOHN C. STRINGHAM
JOHN M. GUYNN
CHARLES L. ROBERTS
DANA L. TANGREN
ERIC L. MASCHOFF
CHARLES J. VEVERKA
ROBYN L. PHILLIPS
RICHARD C. GILMORE *
STERLING A. BRENNAN
R. BURNS ISRAELSEN
DAVID R. TODD
DAVID B. DELLENBACH
L. DAVID GRIFFIN
ADRIAN J. LEE
FRASER D. ROY
CARL T. REED
R. PARRISH FREEMAN, JR.
PETER F. MALEN, JR.
L. REX SEARS, PH.D.

WORKMAN | NYDEGGER

INTELLECTUAL PROPERTY ATTORNEYS

1000 EAGLE GATE TOWER
60 EAST SOUTH TEMPLE
SALT LAKE CITY, UTAH 84111
TELEPHONE: (801) 533-9800
FAX: (801) 328-1707

WEBSITE: [HTTP://WWW.WNLAW.COM](http://www.wnlaw.com)



PATENT
Docket No. 15436.438.2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Hoki Kwon

Serial No.: 10/078,474

Filed: Feb. 21, 2002

For: GAAS/AL(GA)AS DISTRIBUTED BRAGG
REFLECTOR ON INP

Examiner: Dung T. Nguyen

Patent No.: 6,822,995 B2

Issue Date: Nov. 23, 2004

Art Unit
2828

REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323

Attn: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. § 1.323 which implement 35 U.S.C. § 255, the Commissioner is respectfully requested to issue a Certificate of Correction to correct mistakes in the above-identified patent. The enclosed Patent Office Form 1050 reflects the desired corrections. Also enclosed please find a check in the amount of \$100.00 to cover the costs for issuance of this certificate.

ROBERT E. AYCOCK
JENS C. JENKINS
MICHAEL B. DODD
BRETT I. JOHNSON
SARA D. JONES
TIGE KELLER
JANNA J. LEWIS
J. LAVAR OLDHAM
MICHAEL J. FRODSHAM
WESLEY C. ROSANDER
RYAN N. FARR
WILLIAM R. RICHTER
KEVIN W. STINGER
MATTHEW D. TODD
MATTHEW A. BARLOW
ANDREW S. HANSEN
CHAD E. NYDEGGER
JOSEPH G. PIA
CLINTON E. DUKE
JAMES B. BELSHE
KIRK R. HARRIS
MICHAEL M. BALLARD
DAVID A. JONES
SHANE K. JENSEN
JONATHAN M. BENNS, PH.D.
SCOTT A. WOODBURY
JOHN T. GADD
MARK W. FORD
COLBY C. NUTTALL
AARON M. SMITH
KULANIAKEA FISHER
THOMAS M. BONACCI
PAUL G. JOHNSON
AMBER B. LEAVITT
JEFFERY M. LILLYWHITE
HEATHER MANWARING
JOHN C. BACCOCH

VERNON R. RICE §
OF COUNSEL

* Admitted only in California
§ Admitted only in Virginia

The Commissioner is hereby authorized to charge payment of any fees associated with this communication or credit any overpayment to Deposit Account No. 23-3178. Duplicate copies of this letter are enclosed.

Dated this 10 day of July, 2007.

Respectfully submitted,

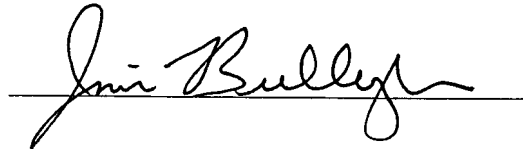


R. Burns Israelsen
Attorney for Patentee
Registration No. 42,685
Customer No. 022913

RBI:jsb
Docket No. 15436.438.2
PR0000002354V001

CERTIFICATE OF DEPOSIT UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 13 day of July, 2007.



Transmitted: REQUEST FOR A CERTIFICATE OF CORRECTION UNDER 37 C.F.R. § 1.323,
PTO Form 1050 and Check No. 153256 for \$100.00

JUL 18 2007

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,822,995 B2

Page 1 of 2

APPLICATION NO. : 10/078,474

ISSUE DATE : Nov. 23, 2004

INVENTOR(S) : Hoki Kwon

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item 54, TITLE, change "GAAS/Al(GA)AS DISTRIBUTED BRAGG REFLECTOR ON INP" to --GAAS/AL(GA)AS DISTRIBUTED BRAGG REFLECTOR ON INP--

Page 2, right column, line 65, change "InP-AlGaAs5b" to --InP-AlGaAsSb--

Page 3, left column, line 8, change "568-567" to --566-567--

Page 3, left column, lines 9 & 10, change "PLUS CODE 83 IS NOT DEFINEDm" to --µm--

Page 3, left column, line 64, change "Lov. 34" to --Vol. 34--

Page 4, left column, line 1, change "BaInNAs" to --GaInNAs--

Page 4, left column, line 10, change "GanAsP/InP" to --GaInAsP/InP--

Page 4, right column, line 9, before "gain offset" insert --nm--

Page 4, right column, line 22, change "48," to --413,--

Page 4, right column, line 23, change "ALPsb/GaPSb" to --AlPSb/GaPSb--

Page 4, right column, line 36, change "distribut4ed" to --distributed--

Page 4, right column, line 39, change "Inp." to --InP.--

Page 4, right column, line 47, change "Ban" to --Band--

Page 5, left column, line 9, before "Applied Physics Letters" insert -- No. 7,--

Page 5, left column, line 29, before "Journal of Crystal Growth" insert --article,--

Page 5, right column, line 15, change "1987" to --1997--

Page 5, right column, line 19, change "AlPsb/GaPSb" to --AlPSb/GaPSb--

Column 1

Line 1, TITLE, change "GAAS/Al(GA)AS" to --GAAS/AL(GA)AS--

Line 35, change "GaAS" to --GaAs--

Line 49, change "resonant" to --resonate--

Column 2

Line 19, change "become" to --becomes--

Line 61, change "VCSELS" to --VCSELS--

Line 64, before "having" change "VCSELS" to --VCSELS--

Line 64, after "Such" change "VCSELS" to --VCSELS--

Line 67, change "VCSELS" to --VCSELS--

MAILING ADDRESS OF SENDER (Please do not use customer number)

R. Burns Israelsen, Esq., WORKMAN NYDEGGER

1000 Eagle Gate Tower

60 East South Temple

Salt Lake City, Utah 84111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUL 18 2007
JUL 18 2007

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,822,995 B2

Page 2 of 2

APPLICATION NO. : 10/078,474

ISSUE DATE : Nov. 23, 2004

INVENTOR(S) : Hoki Kwon

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3

Line 8, before "MOCVD" change "an" to --a--

Line 48, change "AlPSb/GaPsb" to --AlPSb/GaPSb--

Line 57, change "N++/P++" to --n++/p++--

Column 4

Line 36, after "Note" remove [that]

Line 58, change "GaPsb" to --GaPSb--

Line 60, change "Inp" to --InP--

Column 5

Line 9, after "greater" insert --than--

Line 37, after "130." change "A" to --As--

Line 65, change "SiO₂" to --SiO₂--Column 6Line 2, change "SiO₂" to --SiO₂--

Line 7, after "130" insert --is--

Line 37, change "variation" to --variations--

Column 8

Line 22, change "GaAs(1-31)Sbx." to --GaAs(1-x)Sbx.--

MAILING ADDRESS OF SENDER (Please do not use customer number)

R. Burns Israelsen, Esq., WORKMAN NYDEGGER

1000 Eagle Gate Tower

60 East South Temple

Salt Lake City, Utah 84111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUL 18 2007

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,822,995 B2

Page 1 of 2

APPLICATION NO. : 10/078,474

ISSUE DATE : Nov. 23, 2004

INVENTOR(S) : Hoki Kwon

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title Page

Item 54, TITLE, change "GAAS/Al(GA)AS DISTRIBUTED BRAGG REFLECTOR ON INP" to --GAAS/AL(GA)AS DISTRIBUTED BRAGG REFLECTOR ON INP--

Page 2, right column, line 65, change "InP-AlGaAs5b" to --InP-AlGaAsSb--

Page 3, left column, line 8, change "568-567" to --566-567--

Page 3, left column, lines 9 & 10, change "PLUS CODE 83 IS NOT DEFINEDm" to --μm--

Page 3, left column, line 64, change "Lov. 34" to --Vol. 34--

Page 4, left column, line 1, change "BaInNAs" to --GaInNAs--

Page 4, left column, line 10, change "GanAsP/InP" to --GaInAsP/InP--

Page 4, right column, line 9, before "gain offset" insert --nm--

Page 4, right column, line 22, change "48," to --413,--

Page 4, right column, line 23, change "ALPsb/GaPSb" to --AlPSb/GaPSb--

Page 4, right column, line 36, change "distribut4ed" to --distributed--

Page 4, right column, line 39, change "Inp." to --InP.--

Page 4, right column, line 47, change "Ban" to --Band--

Page 5, left column, line 9, before "Applied Physics Letters" insert -- No. 7,--

Page 5, left column, line 29, before "Journal of Crystal Growth" insert --article,--

Page 5, right column, line 15, change "1987" to --1997--

Page 5, right column, line 19, change "AlPsb/GaPSb" to --AlPSb/GaPSb--

Column 1

Line 1, TITLE, change "GAAS/Al(GA)AS" to --GAAS/AL(GA)AS--

Line 35, change "GaAS" to --GaAs--

Line 49, change "resonant" to --resonate--

Column 2

Line 19, change "become" to --becomes--

Line 61, change "VCSELS" to --VCSELS--

Line 64, before "having" change "VCSELS" to --VCSELS--

Line 64, after "Such" change "VCSELS" to --VCSELS--

Line 67, change "VCSELS" to --VCSELS--

MAILING ADDRESS OF SENDER (Please do not use customer number)

R. Burns Israelsen, Esq., WORKMAN NYDEGGER

1000 Eagle Gate Tower

60 East South Temple

Salt Lake City, Utah 84111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUL 18 2007

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,822,995 B2

Page 2 of 2

APPLICATION NO. : 10/078,474

ISSUE DATE : Nov. 23, 2004

INVENTOR(S) : Hoki Kwon

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 3

Line 8, before "MOCVD" change "an" to --a--

Line 48, change "AlPSb/GaPsb" to --AlPSb/GaPSb--

Line 57, change "N++/P++" to --n++/p++--

Column 4

Line 36, after "Note" remove [that]

Line 58, change "GaPsb" to --GaPSb--

Line 60, change "Inp" to --InP--

Column 5

Line 9, after "greater" insert --than--

Line 37, after "130." change "A" to --As--

Line 65, change "SiO₂" to --SiO₂--

Column 6

Line 2, change "SiO₂" to --SiO₂--

Line 7, after "130" insert --is--

Line 37, change "variation" to --variations--

Column 8

Line 22, change "GaAs(1-31)Sbx." to --GaAs(1-x)Sbx.--

MAILING ADDRESS OF SENDER (Please do not use customer number)

R. Burns Israelsen, Esq., WORKMAN NYDEGGER

1000 Eagle Gate Tower

60 East South Temple

Salt Lake City, Utah 84111

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing the burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch; Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

JUL 18 2007